WHAT IS CLAIMED IS:

1	1.	A carrier for a semiconductor die package, the carrier comprising:
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Sup	(b)	
14		nerein the carrier is for electrically coupling a semiconductor die to a circuit
5	substrate.	
1	2.	The carrier of claim 1 wherein the metal layer comprises copper.
1	3.	The carrier of claim 1 wherein the plurality of bumps are disposed in
2	an array and are s	
<u> 1</u> 5%	•	
	4.	The carrier of claim 1 further comprising:
energe and some cores areas cores. The second to the secon	a c	lie attach region, and wherein the plurality of bumps are arranged around the
3	die attach region.	
en se	_	
	5.	The carrier of claim 1 further comprising a dielectric layer, wherein the
2 ms mas 44 ms 24	metal layer is on	a dielectric layer.
131 11:	6.	The carrier of claim 1 wherein the metal layer includes one or more
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4	sublayers of mate	rial on a base metal.
1	7.	The carrier of claim wherein the metal layer is discontinuous and
2	includes a pluralit	y of etched conductive lines that lead to the plurality of bumps.
3	8.	The carrier of claim 1 wherein each bump has a conical angle of about
4	40 degrees of mor	re.
1	9.	The carrier of claim 1 wherein each bump has a conical shape.
1	10	A semiconductor die package comprising:
3/5	(a)	4
Chy.		in the metal layer; and
4	(b)	a semiconductor die electrically coupled to the die attach region of the
5	carrier.	

1 The die package of claim Wherein the plurality of bumps are 11. 2 stamped bumps and are arranged around the die attach region, and wherein each of the bumps has a height that is greater than or equal to a thickness of the semiconductor die. 3 1 The die package of claim 10 wherein the carrier comprises copper. 12. 1 13. The die package of claim 10 wherein the carrier comprises: 2 a base metal with one or more coatings on the base metal. 1 14. The die package of claim 10 wherein each bump has a conical angle 2 greater than about 40 degrees. 15. The die package of claim 10 wherein the semiconductor die comprises a vertical metal oxide semiconductor field effect transistor (MOSFET) device. 16. The die package of claim 10 wherein the semiconductor die comprises a vertical metal oxide semiconductor field effect transistor (MOSFET) device having a source region, a gate region, and a drain region, wherein the drain region is proximate to the die attach region of the carrier, and the source région and the gate region are distal to the die attach region of the carrier. 1 17. The die package of claim 10 wherein each stamped bump has a conical 2 shape. 1 The die paçkage of claim 10 wherein the bumps and the semiconductor 18. 2 die are at opposite sides of the carrier. 1 19. The die package of claim 10 wherein the bumps and the semiconductor

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die are at the same side of the carrier.

1	20. A semiconductor die package compris/ng:				
2	(a) a carrier comprising metal layer, a die attach region, and a plurality of				
3	stamped bumps formed in the metal layer around the die attach region;				
4	(b) a semiconductor die comprising a vert cal metal oxide semiconductor field				
5	effect transistor (MOSFET) device having a source region, a gate region, and a drain region,				
6	wherein the drain region is electrically coupled to and proximate to the die attach region of				
7	the carrier, and the source region and the gate region are distal to the die attach region, and				
8	wherein the plurality of stamped bumps in the carrier are arranged around the semiconductor				
9	die; and				
10	(c) a plurality of solder deposits disposed on the semiconductor die.				
	21. The semiconductor paje package of claim 20 wherein the each of the				
\$1 \$ 1	$\mathcal{A}\mathcal{A}$				
()1 11	bumps has a conical angle greater than about 40 degrees or more.				
and There are seen that the first term of the fi	22. The semiconductor die package of claim 20 wherein the carrier				
2	comprises copper.				
Ţ,	The semiconductor die package of claim 20 the plurality of bumps are				
2 : 4 :	formed simultaneously in the metal layer.				
	24. A method for forming a carrier for a semiconductor die package, the				
21	method comprising:				
13	(a) providing a metal fayer; and				
\\ 4 5	(b) forming a plurality of bumps in the metal layer, wherein the formed				
X ₅	bumps are capable of being electrically coupled to conductive regions of a circuit substrate.				
1	25. The method of claim 24 wherein forming the plurality of bumps				
2					
2	comprises stamping.				
1	26. A method for forming a semiconductor die package, the method				
2	comprising:				
3	(a) forming a carrier absording to the method of claim 24; and				
4	(b) attaching a semiconductor die to the metal layer after forming the				
5	plurality of bumps.				

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1		27.	The method of claim 26 wherein (c) attaching comprises:
2		attachi	ng the semiconductor die to a die attach region of the carrier, and
3	wherein the pl	urality	of bumps is disposed around the semiconductor die.
1		28.	The method of claim 2 wherein forming the plurality of bumps
2	comprises star	nping.	•
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